### (19) World Intellectual Property Organization International Bureau



# 

### (43) International Publication Date 14 April 2005 (14.04.2005)

## **PCT**

## (10) International Publication Number WO 2005/032634 A1

(51) International Patent Classification7: A61M 16/06. A62B 18/02

(21) International Application Number:

PCT/NZ2004/000246

(22) International Filing Date: 8 October 2004 (08.10.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: 8 October 2003 (08.10.2003) NZ 528800

(71) Applicant (for all designated States except US): FISHER & PAYKEL HEALTHCARE LIMITED [NZ/NZ]; 15 Maurice Paykel Place, East Tamaki, Auckland, 1706 (NZ).

(72) Inventors; and

(75) Inventors/Applicants (for US only): GRADON, Lewis, George [NZ/NZ]; 22 Brailsford Court, Howick, Auckland, 1705 (NZ). MCAULEY, Alastair, Edwin [NZ/NZ]; 58A Ngapuhi Road, Remuera, Auckland, 1005 (NZ). JOE, Teresa, Anne [NZ/NZ]; Apartment B, 17 Domain Road, Panmure, Auckland, 1006 (NZ). DAVIES, Nell, Glen [NZ/NZ]; 50/2 Cawley Street, Ellerslie, Auckland; 1005 (NZ). WINSTONE, Tracey, Carolyn [NZ/NZ]; 2/18A Ballin Street, Ellerslie, Auckland, 1005 (NZ). MILIVO-JEVIC, Ivan [NZ/NZ]; 221B Lake Road, Takapuna, Auckland, 1310 (NZ).

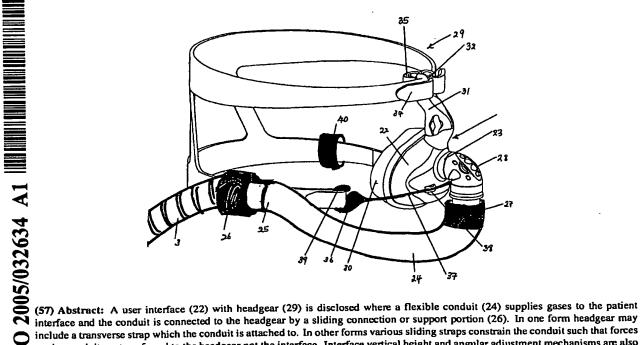
(74) Agents: ADAMS, Matthew, D? et al.; A J Park, 6th Floor Huddart Parker Building, PO Box 949, Wellington, 6015

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO. CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,

[Continued on next page]

(54) Title: BREATHING ASSISTANCE APPARATUS



include a transverse strap which the conduit is attached to. In other forms various sliding straps constrain the conduit such that forces on the conduit are transferred to the headgear not the interface. Interface vertical height and angular adjustment mechanisms are also disclosed.